

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000488

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ H01M8/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H01M8/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-93551 A (Toshiba Corp.), 06 April, 2001 (06.04.01), Claims; column 4, lines 34 to 43; column 6, line 45 to column 7, line 43; column 10, line 37 to column 11, line 2; Figs. 7, 17	1-10
Y	JP 57-185172 U1 (Nissan Motor Co., Ltd.), 24 November, 1982 (24.11.82), Claims; page 6, line 11 to page 7, line 3; Fig. 3 (Family: none)	1-10
A	JP 2001-313047 A (Yuasa Corp.), 09 November, 2001 (09.11.01), Claims; column 3, line 32 to column 4, line 31; Figs. 1 to 4 (Family: none)	1-10

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
14 April, 2005 (14.04.05)Date of mailing of the international search report
10 May, 2005 (10.05.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000488

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-109633 A (FOAMEX L.P.), 11 April, 2003 (11.04.03), Claims; column 11, line 50 to column 12, line 16	1-10

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/JP2005/000488

JP 2001-93551 A	2001.04.06	US 6506513 B1	2003.01.14
		EP 1087455 A2	2001.03.28
JP 2003-109633 A	2003.04.11	EP 1280219 A2	2003.01.29
		US 2003-8193 A1	2003.01.09
		WO 2003-3493 A1	2003.01.09
		CN 1402369 A	2003.03.12
		CA 2390058 A1	2002.12.28
		KR 2003-3097 A	2003.01.09
		TW 557599 A	2003.10.11
		AU 2002-312061 A1	2003.03.03

A. 発明の属する分野の分類 (国際特許分類 (IPC))
Int.Cl.⁷ H01M8/04

B. 調査を行った分野
調査を行った最小限資料 (国際特許分類 (IPC))
Int.Cl.⁷ H01M8/04

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	1922-1996年
日本国公開実用新案公報	1971-2005年
日本国実用新案登録公報	1996-2005年
日本国登録実用新案公報	1994-2005年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
Y	JP 2001-93551 A (株式会社東芝) 2001. 04. 06, 特許請求の範囲、第4欄第34-43行、第6欄第45行-第7欄第43行、第10欄第37行-第11欄第2行、図7, 図17	1-10
Y	JP 57-185172 U1 (日産自動車株式会社) 1982. 11. 24, 実用新案登録請求の範囲、第6頁第11行-第7頁第3行、図3 (ファミリーなし)	1-10
A	JP 2001-313047 A (株式会社ユアサコーポレーション) 2001. 11. 09, 特許請求の範囲、第3欄第32行-第4欄第31行、図1-4 (ファミリーなし)	1-10

☐ C欄の続きにも文献が列挙されている。

☐ パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」特に関連のある文献ではなく、一般的技術水準を示すもの

「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの

「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)

「O」口頭による開示、使用、展示等に言及する文献

「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの

「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの

「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの

「&」同一パテントファミリー文献

国際調査を完了した日
14. 04. 2005

国際調査報告の発送日
10. 05. 2005

国際調査機関の名称及びあて先
日本国特許庁 (ISA/JP)
郵便番号100-8915
東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)
小川 武

4K 9270

電話番号 03-3581-1101 内線 3435

C (続き) . 関連すると認められる文献		
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
A	JP 2003-109633 A (フォーメックス エル ビー) 2003.04.11, 特 許請求の範囲、第 11 欄第 50 行-第 12 欄第 16 行	1-10

国際調査報告
パテントファミリーに関する情報

国際出願番号 PCT/J P 2 0 0 5 / 0 0 0 4 8 8

JP 2001-93551 A	2001. 04. 06	US 6506513 B1	2003. 01. 14
		EP 1087455 A2	2001. 03. 28
JP 2003-109633 A	2003. 04. 11	EP 1280219 A2	2003. 01. 29
		US 2003-8193 A1	2003. 01. 09
		WO 2003-3493 A1	2003. 01. 09
		CN 1402369 A	2003. 03. 12
		CA 2390058 A1	2002. 12. 28
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		TW 557599 A	2003. 10. 11
		AU 2002-312061 A1	2003. 03. 03

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NT1897PCT	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2005/000488	International filing date (<i>day/month/year</i>) 17 January 2005 (17.01.2005)	Priority date (<i>day/month/year</i>) 20 January 2004 (20.01.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant HITACHI, LTD.			

<p>1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).</p> <p>2. This REPORT consists of a total of 4 sheets, including this cover sheet.</p> <p>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</p>																
<p>3. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/> Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/> Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/> Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/> Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/> Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/> Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/> Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/> Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).</p>	<input checked="" type="checkbox"/> Box No. I	Basis of the report	<input type="checkbox"/> Box No. II	Priority	<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/> Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/> Box No. VI	Certain documents cited	<input type="checkbox"/> Box No. VII	Certain defects in the international application	<input type="checkbox"/> Box No. VIII	Certain observations on the international application
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<input type="checkbox"/> Box No. VIII	Certain observations on the international application															

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 22 August 2006 (22.08.2006)</p>
	<p>Authorized officer</p> <p>Masashi Honda</p> <p>e-mail: pt08@wipo.int</p>

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

NT1897PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/000488

International filing date (day/month/year)

17.01.2005

Priority date (day/month/year)

20.01.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

HITACHI, LTD.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000488

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/000488

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-10</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	<u>1-10</u>	NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims	_____	NO

2. Citations and explanations:

Document 1: JP, 2001-93551, A (TOSHIBA CORPORATION), 6 April, 2001 (06.04.01)
Document 2: JP, 57-185172, U1 (NISSAN MOTOR CO., LTD.), 24 November, 1982

About claims 1-10

Inventions related to claims 1-10 do not appear to be inventive on account of the documents 1 and 2 cited in the ISR.

A liquid fuel container for fuel cell for pushing out a liquid fuel made up with a mixed solution of methanol and water by moving a fuel sealing member by the pressure of a sealed inactive gas is disclosed in the pointed part of the document 1, and the material of the fuel ceilings member is not disclosed.

However, the liquid fuel container for fuel cell described in the document 1 and the fuel cell temperature control device described in the document 2 are common in the function of being a device in contact with the fuel of a fuel cell, and belong to similar technical fields, so that applying as a material for a piston which comes in contact with methanol fuel the PTFE, carbon material and covering member disclosed in the pointed part of the document 2 could easily have been conceived by a person skilled in the art.

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

NT1897PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/000488

International filing date (day/month/year)

17.01.2005

Priority date (day/month/year)

20.01.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

HITACHI, LTD.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000488

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

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2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/000488

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-10	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO
2. Citations and explanations:			
<p>Document 1: JP, 2001-93551, A (TOSHIBA CORPORATION), 6 April, 2001 (06.04.01)</p> <p>Document 2: JP, 57-185172, U1 (NISSAN MOTOR CO., LTD.), 24 November, 1982</p> <p>About claims 1-10</p> <p>Inventions related to claims 1-10 do not appear to be inventive on account of the documents 1 and 2 cited in the ISR.</p> <p>A liquid fuel container for fuel cell for pushing out a liquid fuel made up with a mixed solution of methanol and water by moving a fuel sealing member by the pressure of a sealed inactive gas is disclosed in the pointed part of the document 1, and the material of the fuel ceilings member is not disclosed.</p> <p>However, the liquid fuel container for fuel cell described in the document 1 and the fuel cell temperature control device described in the document 2 are common in the function of being a device in contact with the fuel of a fuel cell, and belong to similar technical fields, so that applying as a material for a piston which comes in contact with methanol fuel the PTFE, carbon material and covering member disclosed in the pointed part of the document 2 could easily have been conceived by a person skilled in the art.</p>			

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NT1897PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/000488	International filing date (<i>day/month/year</i>) 17 January 2005 (17.01.2005)	Priority date (<i>day/month/year</i>) 20 January 2004 (20.01.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant HITACHI, LTD.		

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3.	<p>This report contains indications relating to the following items:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"><input checked="" type="checkbox"/></td> <td style="width: 35%;">Box No. I</td> <td style="width: 50%;">Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																							
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).																								

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; padding-bottom: 5px;"> Date of issuance of this report 24 July 2006 (24.07.2006) </td> <td style="width: 50%;"></td> </tr> <tr> <td style="border-bottom: 1px solid black; padding-bottom: 5px;"> Authorized officer <div style="text-align: right; font-weight: bold;">Masashi Honda</div> </td> <td></td> </tr> <tr> <td colspan="2" style="padding-top: 5px;"> e-mail: pt08@wipo.int </td> </tr> </table>	Date of issuance of this report 24 July 2006 (24.07.2006)		Authorized officer <div style="text-align: right; font-weight: bold;">Masashi Honda</div>		e-mail: pt08@wipo.int	
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特許協力条約

発信人 日本国特許庁（国際調査機関）

代理人

小川 勝男

様

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REC'D 12 MAY 2005

WIPO

PCT

PCT

国際調査機関の見解書
(法施行規則第40条の2)
[PCT規則43の2.1]

発送日
(日.月.年)

10.05.2005

出願人又は代理人

の書類記号 NT1897PCT

今後の手続きについては、下記2を参照すること。

国際出願番号

PCT/J P 2005/000488

国際出願日

(日.月.年) 17.01.2005

優先日

(日.月.年) 20.01.2004

国際特許分類 (IPC) Int.Cl.⁷ H01M8/04

出願人 (氏名又は名称)

株式会社日立製作所

1. この見解書は次の内容を含む。

- ☒ 第I欄 見解の基礎
- ☐ 第II欄 優先権
- ☐ 第III欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成
- ☐ 第IV欄 発明の単一性の欠如
- ☒ 第V欄 PCT規則43の2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
- ☐ 第VI欄 ある種の引用文献
- ☐ 第VII欄 国際出願の不備
- ☐ 第VIII欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国際予備審査機関がPCT規66.1の2(b)の規定に基づいて国際調査機関の見解書を国際予備審査機関の見解書とみなさない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解書とみなされる場合、様式PCT/ISA/220を送付した日から3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当な場合は補正書とともに、答弁書を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解書を作成した日

14.04.2005

名称及びあて先

日本国特許庁 (ISA/J P)
郵便番号100-8915
東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

小川 武

電話番号 03-3581-1101 内線 3435

4K

9270

様式PCT/ISA/237 (表紙) (2004年1月)

第 I 欄 見解の基礎

1. この見解書は、下記に示す場合を除くほか、国際出願の言語を基礎として作成された。

☐ この見解書は、_____ 語による翻訳文を基礎として作成した。
それは国際調査のために提出された PCT 規則 12.3 及び 23.1(b) にいう翻訳文の言語である。

2. この国際出願で開示されかつ請求の範囲に係る発明に不可欠なヌクレオチド又はアミノ酸配列に関して、以下に基づき見解書を作成した。

a. タイプ ☐ 配列表
☐ 配列表に関連するテーブル

b. フォーマット ☐ 書面
☐ コンピュータ読み取り可能な形式

c. 提出時期 ☐ 出願時の国際出願に含まれる
☐ この国際出願と共にコンピュータ読み取り可能な形式により提出された
☐ 出願後に、調査のために、この国際調査機関に提出された

3. ☐ さらに、配列表又は配列表に関連するテーブルを提出した場合に、出願後に提出した配列若しくは追加して提出した配列が出願時に提出した配列と同一である旨、又は、出願時の開示を超える事項を含まない旨の陳述書の提出があった。

4. 補足意見：

第V欄 新規性、進歩性又は産業上の利用可能性についてのPCT規則43の2.1(a)(i)に定める見解、それを裏付ける文献及び説明

1. 見解

新規性 (N)	請求の範囲	1-10	有
	請求の範囲		無
進歩性 (IS)	請求の範囲		有
	請求の範囲	1-10	無
産業上の利用可能性 (IA)	請求の範囲	1-10	有
	請求の範囲		無

2. 文献及び説明

文献1 JP 2001-93551 A (株式会社東芝) 2001.04.06

文献2 JP 57-185172 U1 (日産自動車株式会社) 1982.11.24

請求の範囲1-10について

請求の範囲1-10に係る発明は、国際調査報告で引用された文献1および文献2から進歩性を有さない。

封入された不活性ガス圧により、燃料封入部材を移動させてメタノールと水の混合溶液からなる液体燃料を押し出す燃料電池用液体燃料収容容器が、文献1の指摘箇所に開示されており、燃料封入部材の材質が開示されていない。

しかしながら、文献1記載の燃料電池用液体燃料収容容器と文献2に記載された燃料電池の温度制御装置は、燃料電池の燃料と接触する装置という機能の点で共通するものであり、類似の技術分野に属するものであるので、メタノール燃料と接触するピストンの材料として文献2の指摘箇所に開示されている、PTFE、カーボン材、被覆材を適用することは、当業者であれば容易に想到し得たものである。

特許協力条約

発信人 日本国特許庁（国際調査機関）

代理人

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(日.月.年)

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出願人又は代理人

の書類記号 NT1897PCT

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国際出願番号

PCT/J P 2005/000488

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☐ 第II欄 優先権

☐ 第III欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成

☐ 第IV欄 発明の単一性の欠如

☒ 第V欄 PCT規則43の2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明

☐ 第VI欄 ある種の引用文献

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☐ コンピュータ読み取り可能な形式

c. 提出時期 ☐ 出願時の国際出願に含まれる

☐ この国際出願と共にコンピュータ読み取り可能な形式により提出された

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	請求の範囲		無
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	請求の範囲	1-10.	無
産業上の利用可能性 (IA)	請求の範囲	1-10	有
	請求の範囲		無

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From the INTERNATIONAL BUREAU

PCTNOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

OGAWA, Katsuo
8th Floor No. 17 Arai Building
3-3, Shinkawa 1-chome
Chuo-ku, Tokyo 1040033
JAPON

Date of mailing (day/month/year) 01 April 2005 (01.04.2005)	
Applicant's or agent's file reference NT1897PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP05/000488	International filing date (day/month/year) 17 January 2005 (17.01.2005)
International publication date (day/month/year)	Priority date (day/month/year) 20 January 2004 (20.01.2004)
Applicant HITACHI, LTD. et al	

- By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- (If applicable)* The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- (If applicable)* An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
20 January 2004 (20.01.2004)	2004-011310	JP	10 March 2005 (10.03.2005)

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